

# Model Lesson Plan Science

Grade Kindergarten

Fortune Teller Fish
Stage 1 – Desired Results

#### **Standards:**

**Science S1** Students, through the inquiry process, demonstrate the ability to design, conduct, evaluate, and communicate the results and form reasonable conclusions of scientific investigations.

<b>Essential Questions:</b>
<ul> <li>What is an observation?</li> <li>What is a testable question?</li> <li>How can questions be tested?</li> <li>How are observations communicated?</li> </ul>
Students will be able to
<ul> <li>Communicate observations</li> </ul>
State questions, and with guidance state a
testable question
Conduct a simple investigation with guidance

# Stage 2 – Assessment Evidence

### **Performance Tasks:**

Students will observe and generate questions about fortune teller fish. Students will record and orally share observations. The student-generated questions will guide the development of a simple investigation into the cause of the fish's movement. Students will conduct a simple investigation and share results.

#### Other Evidence:

- Participate- Share observations about fortune teller fish.
- Contribute- At least one reason why fish moves.

#### Stage 3 – Learning Plan

## **Learning Activities:**

- 1. Begin by assembling students in a circle on the floor. Discuss with students the guidelines of group discussion (raising your hand, one person speaks at a time, etc).
- 2. To set the stage, make sure students understand what a question is.
- 3. Ask students entry questions: Have you ever seen a fish? Do you know what a fortune teller is? Have you every seen a fortune teller fish?
- 4. Discuss how they will be using questions to learn more about a fortune teller fish.
- 5. Provide each student with a fortune teller fish. Allow time for the students to explore what this fish does.
- 6. Have students draw their fish on a piece of paper with as much detail as possible.
- 7. Introduce students to the term observation. Have students share their drawings and see who made similar observations. Explain that by making a drawing of their fish they are recording observations.
- 8. Guide students to take turns asking the fish a question. The questions can be anything, EXCEPT -what is my fortune? Record student questions for all to see.
- 9. Allow all students the opportunity to generate a question, or continue until someone asks their fish—"How do you work? or How do you move?"
- 10. Discuss that some questions can be tested and what that means. Ask the students to determine which questions can be tested. This may take guidance.
- 11. Circle any questions that can be tested. Discuss the features of those questions. (Usually start with: how, does, which, can, what if)
- 12. Guide the students to focus on the question of how the fish works.
- 13. Direct students to provide reasons why the fish may move and list these reasons on the board.
- 14. Provide examples of how these reasons can be developed into questions. Write these on the board.
- 15. Lead the class to test the reason of moisture.
- 16. Put students into pairs and have them draw how they would expose their fish to moisture. Have the students share these with the class.
- 17. Discuss the different ways the fish can be exposed to moisture.
- 18. Provide students with the opportunity to carry out their plan. Students should draw their fish after their investigation.
- 19. Students share the results of their investigation with the class.
- 20. Guide discussion of why the fish moves in the students' hands and how water affects the fish.
- 21. Class decides on a common conclusion as to why the fish moves.
- 22. Discuss the process of what the students did and how this relates to science. Share with the students that this process will be used as they learn more about science.

#### **Materials/Resources Needed:**

- Fortune teller fish
- Blank paper
- Crayons or colored pencils
- Whiteboard
- Investigation materials will be guided by students plans, but usually include water, bowls, paper towels.